

CLAIMS

What is claimed is:

1. An electronic filament netting comprising:

5 a warp of a first plurality of wires woven together with a weft of a second plurality of wires, wherein a random number of said warp and said weft wires are electrically connected to electronic monitoring apparatus so as to create a random electrical connection which defines an initial electrical parameter, wherein a change in said initial electrical parameter is communicated to said electronic monitoring apparatus.

10 2. The electronic filament netting according to claim 1 wherein said warp and said weft wires are electrically connected in a random manner to a bus in electrical communication with said electronic monitoring apparatus.

5 3. The electronic filament netting according to claim 1 wherein said warp and said weft wires are embedded in a material suitable for draping over an object to be protected.

15 4. The electronic filament netting according to claim 2 wherein said warp and said weft wires are pre-manufactured in random electrical connection with said bus.

4 5. The electronic filament netting according to claim 2 wherein said bus is attached to an object to be protected.

20 6. The netting according to claim 1 wherein at a junction between one of said warp wires and one of said weft wires, said one of said warp wires is looped around said one of said weft wires.

7. The netting according to claim 1 wherein at a junction between one of said warp wires and one of said weft wires, said one of said weft wires is looped around said one of said warp wires.

25 8. The netting according to claim 1 wherein said warp and said weft wires comprise electrically resistive elements.

9. The netting according to claim 1 wherein said warp and said weft wires comprise electrically capacitive elements.

10. The netting according to claim 1 wherein said warp and said weft wires comprise electrically inductive elements.

30 11. The netting according to claim 1 wherein at least one of said warp and said weft wires comprises a multiplicity of resistive wires, wherein only a random number of said resistive wires are electrically connected to an electrical terminal of said electronic monitoring apparatus.

12. The netting according to claim 1 wherein said electronic monitoring apparatus comprises a multiplexer to which are electrically connected said warp and said weft wires.

13. The netting according to claim 1 and further comprising a monitoring station in communication with said electronic monitoring apparatus.

5 14. The netting according to claim 13 wherein said monitoring station is in encrypted communication with said electronic monitoring apparatus.

15. The netting according to claim 14 wherein said encrypted communication comprises a mutual zero-knowledge interaction authentication session.